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ABSTRACT OF THE DISCLOSURE

IR AND/OR SM PROMOTED MULTI-METAL OXIDE CATALYST

A catalyst comprising a promoted mixed metal oxide is useful for the vapor phase oxidation of an alkane or a mixture of an alkane and an alkene to an unsaturated carboxylic acid and for the vapor phase ammoxidation of an alkane or a mixture of an alkane and an

alkene to an unsaturated nitrile.